

# 269D ALERT SERVICE BULLETIN



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ASB DB-043

Basic Issue • April 26/12

**SUBJECT:** ENGINE INSTALLATION – Engine Alignment Adjustment – Implement Recurring Engine Alignment Checks

## Section 1. PLANNING INFORMATION

- A. **Effectivity** All 269D model helicopters.
- B. **Purpose** To notify all operators of new recurring alignment checks of the engine and KAflex® drive shaft.
- C. **Description** Recurring alignment checks of the engine and KAflex® drive shaft are implemented in accordance with the Temporary Revisions listed in Section L., References of this Alert Service Bulletin (ASB). Use of engine alignment tool and belt drive alignment tool are essential. If necessary, alignment tools may be purchased from the supplier listed in Section H., Tooling of this ASB.
- D. **Compliance** Compliance is essential. Procurement of alignment tools shall be accomplished within the next 100 flight hours or 90 days from the issue date of this ASB, whichever occurs first.
- E. **Approval** Inspection item.

Section 1. PLANNING INFORMATION (Continued)

F. Manpower (Estimated)

Task	No. of Men	No. of Hours	Man-Hours*
Perform alignment check	1	0.5	<u>0.5</u>
Total Man-Hours			0.5

\*Estimate does not include time required to prepare helicopter or return it to flight status.

G. Material

None.

H. Tooling

- (1) Engine Alignment Tool, P/N 269T3303. Available from Red Barn Machine, Inc. Website: [www.redbarn.net](http://www.redbarn.net).
- (2) Belt Drive Alignment Tool, P/N 269T3303-003. Available from Red Barn Machine, Inc. Website: [www.redbarn.net](http://www.redbarn.net).

I. Weight and Balance

None.

J. Electrical Load Data

Not affected.

K. Software Load Data

Not applicable.

L. References

- (1) Model 269D:
  - (a) Temporary Revision No. 269D-9, against Handbook of Maintenance Instructions CSP-D-2, Appendix B, Table B-2, Periodic Inspections, is issued concurrently with this ASB.
  - (b) Temporary Revision No. 269D-10, against Handbook of Maintenance Instructions CSP-D-2, Section 3, is issued concurrently with this ASB.
  - (c) Temporary Revision No. 269D-11, against Handbook of Maintenance Instructions CSP-D-2, Section 10, is issued concurrently with this ASB.

Section 1. PLANNING INFORMATION (Continued)

- (2) Model 269D, Configuration "A":
  - (a) Temporary Revision No. 269DA-9, against Handbook of Maintenance Instructions CSP-D-9, Appendix B, Table B-2, Periodic Inspections, is issued concurrently with this ASB.
  - (b) Temporary Revision No. 269DA-10, against Handbook of Maintenance Instructions CSP-D-9, Section 3, is issued concurrently with this ASB.
  - (c) Temporary Revision No. 269DA-11, against Handbook of Maintenance Instructions CSP-D-9, Section 10, is issued concurrently with this ASB.
- (3) Model 269D, Configuration "M":
  - (a) Temporary Revision No. 269DM-4, against Operation and Maintenance Instruction Manual MSP-D-15, Chapter 30, Table 30-2, Periodic Inspections, is issued concurrently with this ASB.
  - (b) Temporary Revision No. 269DM-5, against Operation and Maintenance Instruction Manual MSP-D-15, Chapter 4, is issued concurrently with this ASB.
  - (c) Temporary Revision No. 269DM-6, against Operation and Maintenance Instruction Manual MSP-D-15, Chapter 11, is issued concurrently with this ASB.
- (4) Model 269D, Configuration "MB":
  - (a) Temporary Revision No. 269DMB-2, against Handbook of Maintenance Instructions MSP-D-18, Appendix B, Table B-2, Periodic Inspections, is issued concurrently with this ASB.
  - (b) Temporary Revision No. 269DMB-3, against Handbook of Maintenance Instructions MSP-D-18, Section 3, is issued concurrently with this ASB.
  - (c) Temporary Revision No. 269DMB-4, against Handbook of Maintenance Instructions MSP-D-18, Section 10, is issued concurrently with this ASB.

M. Publications Affected

- (1) Model 269D:

CSP-D-2 Technical Manual for S-330, Model 269D Helicopter Basic Handbook of Maintenance Instructions (HMI), Issued 01 February 1993, Revised 24 Sep 2010, or later revision.
- (2) Model 269D, Configuration "A":

CSP-D-9 Technical Manual for S-333, Model 269D, Configuration "A" Helicopter Basic Handbook of Maintenance Instructions (HMI), Issued 20 Jul 2001, Revised 20 Aug 2010, or later revision.

Section 1. PLANNING INFORMATION (Continued)

(3) Model 269D, Configuration "M":

MSP-D-15 Technical Manual for S-333-M, Model 269D, Configuration "M" Helicopter Basic Operation and Maintenance Instruction (OMI) Manual, Issued 15 Jan 2007, Revised 16 Jul 2010, or later revision.

(4) Model 269D, Configuration "MB":

MSP-D-18 Technical Manual for S-434M, Model 269D, Configuration "MB" Helicopter Basic Handbook of Maintenance Instructions (HMI), Issued 14 Apr 2009, Revised 16 Jul 2010, or later revision.

N. Attachment

None.

Section 2. MATERIAL INFORMATION

A. Basis for Material Data

Per helicopter.

B. Bill of Material

Refer to applicable HMI/OMI.

C. Consumable Material

Refer to applicable HMI/OMI.

D. Tools Required

None.

Section 3. ACCOMPLISHMENT INSTRUCTIONS

A. Implement following recurring KAflex® drive shaft alignment check at the 25-hour periodic inspection:

(1) For 269D model helicopters:

- (a) Turn off all helicopter electrical power.
- (b) Using belt drive alignment tool 269T3303-003, check alignment of lower pulley to engine by engaging tool on drive shaft and insert in lower pulley bore.
- (c) Rotate tool 360° around drive shaft and check for interference. Interference with rotation of tool indicates rubber isolators have sagged and vertical adjustment of engine is required. Adjust engine elevation in accordance with applicable Basic HMI, Section 3, paragraph 3-33.

Section 3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

- (d) Proceed to paragraph C.
  - (2) For 269D Configuration “A” model helicopters:
    - (a) Turn off all helicopter electrical power.
    - (b) Using belt drive alignment tool 269T3303-003, check alignment of lower pulley to engine by engaging tool on drive shaft and insert in lower pulley bore.
    - (c) Rotate tool 360° around drive shaft and check for interference. Interference with rotation of tool indicates rubber isolators have sagged and vertical adjustment of engine is required. Adjust engine elevation in accordance with applicable Basic HMI, Section 3, paragraph 3-31.
    - (d) Proceed to paragraph C.
  - (3) For 269D Configuration “M” model helicopters:
    - (a) Turn off all helicopter electrical power.
    - (b) Using belt drive alignment tool 269T3303-003, check alignment of lower pulley to engine by engaging tool on drive shaft and insert in lower pulley bore.
    - (c) Rotate tool 360° around drive shaft and check for interference. Interference with rotation of tool indicates rubber isolators have sagged and vertical adjustment of engine is required. Adjust engine elevation in accordance with applicable Basic OMI, Chapter 4, paragraph 4-31.
    - (d) Proceed to paragraph C.
  - (4) For 269D Configuration “MB” model helicopters:
    - (a) Turn off all helicopter electrical power.
    - (b) Using belt drive alignment tool 269T3303-003, check alignment of lower pulley to engine by engaging tool on drive shaft and insert in lower pulley bore.
    - (c) Rotate tool 360° around drive shaft and check for interference. Interference with rotation of tool indicates rubber isolators have sagged and vertical adjustment of engine is required. Adjust engine elevation in accordance with applicable Basic HMI, Section 3, paragraph 3-31.
    - (d) Proceed to paragraph C.
- B. Implement following recurring engine alignment adjustment at the 400-hour periodic inspection:
- (1) For 269D model helicopters:
    - (a) Review and comply with Temporary Revision No. 269D-9, listed in Section L., References, of this ASB.

Section 3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

- (b) Proceed to paragraph C.
- (2) For 269D Configuration "A" model helicopters:
  - (a) Review and comply with Temporary Revision No. 269DA-9, listed in Section L., References, of this ASB.
  - (b) Proceed to paragraph C.
- (3) For 269D Configuration "M" model helicopters:
  - (a) Review and comply with Temporary Revision No. 269DM-4, listed in Section L., References, of this ASB.
  - (b) Proceed to paragraph C.
- (4) For 269D Configuration "MB" model helicopters:
  - (a) Review and comply with Temporary Revision No. 269DMB-2, listed in Section L., References, of this ASB.
  - (b) Proceed to paragraph C.
- C. Return helicopter to service.
- D. Record of Compliance:
  - (1) Make an appropriate helicopter logbook entry to show compliance with this ASB.
  - (2) Complete attached ALERT SERVICE BULLETIN COMPLIANCE RECORD CARD and return it to Sikorsky Aircraft Corporation.

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This request is in keeping with our policy to assure that our customers receive the latest information applicable for the maintenance of your aircraft. Thank you.

ALERT SERVICE BULLETIN:           No. DB-043           **Compliance Record Card**

TITLE: ENGINE INSTALLATION – Engine Alignment Adjustment – Implement Recurring  
Engine Alignment Checks

OWNER/OPERATOR: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

- FOLLOWING SERIAL NUMBERS ARE NOT AFFECTED BY THIS ASB
- ASB HAS BEEN COMPLIED WITH ON THE FOLLOWING SERIAL NUMBERS

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